CLAIM 2 An apparatus for measuring dimensions of an object comprising: 1. 3 a source of microwave signals having a predetermined amplitude and (A) 4 frequency, 5 transmitting means for radiating said microwave signals, (B) 6 receiving means for receiving said microwave signals, and (C) 7 processor means for evaluating such received signals. (D) 8 9 2. The apparatus of Claim 1, in which such transmitting means comprises an antenna array of a plurality of miniaturized 10 11 11 antennas. The apparatus of Claim 2, in which 12 3. such miniature antennas are horizontally polarized The apparatus of Claim 1, in which 4. such receiving means comprises an antenna array of a plurality of miniaturized antennas. The apparatus of Claim 4, in which 5. 17 such miniature antennas are horizontally polarized. 18 The apparatus of Claim 1, wherein 6. 19 such transmitting means and such receiving means are formed in a linear 20 21 configuration. The apparatus of Claim 1, wherein 7. 22

What is claimed is:

1

	23		such transmitting means and such receiving means are formed in a circular				
Hard Carlo with the state of th	24	config	onfiguration.				
	25	8.	The apparatus of Claim 1, in which				
	26		such processor means calculates one or more of the following measurements:				
	27		(A) height;				
	28		(B) head size;				
	29		(C) neck;				
	30		(D) chest;				
	31		(E) waist;				
	32		(F) hips;				
	33		(G) inseam; and				
	34		(H) sleeve.				
	35	9.	The apparatus of Claim 1, wherein				
	36		such object being measured comprises a human being.				
	37	10.	The apparatus of Claim 1, wherein such processor means comprises a computer.				
	38	11.	The apparatus of Claim 1 further comprising:				
	39		(A) at least one server unit;				
	40		(B) a means for relaying said measured dimensions from said processor means				
	41		to said at least one server unit; and				
	42		(C) a means for relaying said measured dimensions from said at least one				
	43		server unit to at least one user.				
	44	12.	A method for measuring the size and shape of an object using microwave signals,				
	45	compi	mprising:				

Non-provisional Application Docket No.: VTC.0107 Document No.: VTC.003

	46		(A)	providing an apparatus for transmitting and receiving a interowave signar,
	47		(B)	locating said object relative to the apparatus;
	48		(C)	transmitting said microwave signal towards the object using said apparatus
	49	and ca	using sa	aid transmitted signal to be incident on the object;
	50		(D)	receiving said microwave signal not absorbed by the object;
	51		(E)	extracting information from said received signal; and
The party party from the first	52		(F)	determining at least one measurement value using said extracted
	53	inform	nation fr	rom said received signal.
	54	13.	The m	ethod of Claim 12, wherein
	55		such o	bject being measured comprises a human being.
	56	14.	The m	ethod of Claim 12, in which
	57		such a	t least one measurement value is selected from the group consisting of:
	58		(A)	height;
	59		(B)	head size;
	60		(C)	neck;
	61		(D)	chest;
	62		(E)	waist;
	63		(F)	hips;
	64		(G)	inseam; and
	65		(H)	sleeve.
	66	15.	The m	nethod of Claim 12, further comprising the step of communicating said
	67		extrac	ted information to at least one user.

Non-provisional Application Docket No.: VTC.0107 Document No.: VTC.003

	68	16.	The method of Claim 15, wherein such step for communicating said extracted
	69		information is performed by a communication system comprising:
	70		(A) at least one server unit;
	71		(B) a means for relaying said measured dimensions from said processor means
	72		to said at least one server unit; and
	73		(C) a means for relaying said measured dimensions from said at least one
	74		server unit to said at least one user.
	75	17.	A method of measuring the dimensions of an object comprising:
	76		generating microwaves,
	77		directing the microwaves toward said object,
	78		measuring the unabsorbed microwave energy, and
	79		determining the size and shape of said object from said unabsorbed microwave
	80	energy	·.
	81	18.	The method of Claim 17, wherein
TI KI	82		such object being measured comprises a human being.
	82 83	19.	The method of claim 17, in which
Total Control	84		said microwaves are generated by an oscillator for generating microwaves of a
	85	predet	ermined frequency in the microwave region chosen for maximum absorption by the
	86	object	